



**OSC Meeting** 

5/31/01





#### Background



- Phosphate fertilizer producer
  - Imports Phosphate Rock
  - Reacts rock with Phosphoric and Sulfuric Acids
  - Gypsum is a by-product of process
    - Gyp Piles created as a result
  - Gyp Piles produce Phosphoric Acid used in the process
- Facility has capacity to use 1.2 mgd of water
- 1" of Rainfall = 10 million gallons of water



#### **Past Incidents**



- 1992 Catastrophic Release (Fife)
  - Mobil Mining owner
  - 45 million gallons of gyp and acid
  - Impacted Houston Ship Channel and Railroad
- Agrifos Florida Facility
  - Abandoned for FL and EPA R4 to cleanup (200 million spent thus far
- 2002 Hurricane Allison (Franklin and Zehner)
  - Retaining wall failure



#### Waste Characteristics



- High pH
- Metals
- High Ammonia
- Low concentrations of DNT (not specific to process, contaminated)
- Low level radiation
- LOTS OF IT (200 MILLION GALLONS)

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#### **RCRA**



• Historically protected from "Bevel Exemption"

• Current EPA referral to DOJ for DNT making all hazardous waste



#### Incident



- Heavy rains filled surge capacity of ponds
  - Normal rain fall 60"/year, this year 94"
- Retaining wall started overtopping on August 16 stopped after a couple of days
- Early Sept. more rain received
- Retaining wall failed
- RP started illegally discharging to prevent additional retaining wall failure and potential catastrophic release
  - RP adding PR soda ash





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## Incident (Day 1)



- EPA received call from USCG on 9/6/2007
- Mobilized on 9/7/2007
- IC/UC implemented
  - EPA
  - USCG
  - TCEQ
  - RP (O'Brians Group)
- RP was responsible for IMT implementation



#### Day 1 (ramp up)



- USCG
  - NOAA
  - Gulf Strike Team
  - Media
- O'Brians Group
- EPA
  - START provided Structural Engineer
  - Requested NPDES Subject Expert
  - ERT, OECA consultations



### Day 1 (cont)



• Structural engineer concluded that the retaining wall would hold

• RP discontinued the discharge at 6 PM

• IAP listed workgroups to develop storage, treatment, and disposal options as well as contingency plans to quickly dispose of 25 million gallons of water



### Day 2-3



- Workgroups continued to evaluate storage, disposal, and treatment options
- Environmental Assessment begins
- EPA Emergency Response Notice of Consent issued
- Agrifos advises EPA and USCG of limited funds (2.4 million dollars
- USCG and EPA (responders) starting to realize options are limited





- Ruhl to Regional office to drum up support of mounting problem
  - Superfund
  - Enforcement
- 1st RRT call
  - Advising them of situation and potential future needs
- RP gyp expert on site conducting inspection





- IC/UC was issued report from RP gyp expert that eminent catastrophic release was likely
  - Indicated that at least 24" of freeboard was necessary
- IC/UC focus was directed to protecting the top of the stacks not the retaining walls
- USCG issues letter requiring the facility to take what ever steps they felt necessary to prevent catastophic release





- Ruhl requests additional support
- Forecasted Weather Worsens
  - 0700 possible 1", isolated 4"
  - -0800 up to 7" over the next 3 days
  - 0900 Tropical disturbance 24 hours away
- 1000 RRT Call
  - EPA takes lead on response
  - Tropical disturbance could dump as much as 15" of rain, 45 mph winds, possible tornadoes





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- 1300 Tropical Storm Humberto forms expected to have a direct hit to facility
  - IC/UC developed Crisis Objectives
    - Readied all pumps to quickly remove water from top of stacks
    - Gyp expert indicated to prevent failure of stacks at least 48" of freeboard was necessary

- 1700 CERCLA UAO issued from Superfund to prevent stack failure
  - Input from Moore, Zehner, Carroll

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- 1700 RP initiated the pumping of water from gyp stacks to gain as much freeboard as possible
- 2000 RP maximized flow from WWTP to 1.2 mgd





- 0005 Hurricane Humberto goes East of facility
- 0205 Ruhl requested RP to shut down all of the pumps
  - Water continued to be pumped from the retaining wall
- 0800 IC/UC was notified that approximately 17-19 million gallons was discharged
  - RP was requested to continue the discharge of 3-5 mgd until recommended freeboard was achieved
- 1200 Environmental assessment was initiated
- Zehner arrives on-scene





- Moore, Enders, and Scott Wilson (NPDES Permitting) arrived
- RP continued to discharge
- Environmental Assessment on going
  - pH, dissolved oxygen
  - Water quality samples
  - Sample plan developed (TCEQ, START, NOAA)
  - RP Contractor lead, START augmenting and data management





• Discharge from moat discontinued

• Discharge from WWTP continues

- EPA Moore and Wilson work on possible storage, disposal, and treatment options
- Zehner is assigned Dep. IC
- Enders is assigned accumulating EPA record of incident



#### **Additional Actions**



Day 11 - Joint CERCLA/RCRA UAO issued

Day 15 – Minimum freeboard successfully achieved

- Day 18 Incident transitioned to RCRA Enforcement
  - WWTP went back to normal operation



#### **Issues**



- Getting EPA resources quick
- In EPA eyes, what is the RRT for.....

- When Authorities Collide who has authorities
  - OSC NCP
  - Superfund CERCLA
  - Enforcement CWA, RCRA